

REMARKS

Reconsideration of this application is requested.

Claims 1, 4-6 and 8 have been rejected by the Examiner under 35 USC §102(b) as being anticipated by Magee (U.S. Patent No. 5,265,867).

Magee discloses the following in line 66 of column 2 - line 21 of column 3:

"A first pair of drive belts 16a and 16b are disposed on the signature supporting plate 12 and extend generally in the direction of travel of said signature in spaced apart relation and a second pair of drive belts 18a and 18b are disposed on the respective ones of the first pair of drive belts 16a and 16b and extend generally in the direction of travel of said signature on the sides opposite the signature supporting plate. The binding line mail table 10 further includes means for driving the drive belts 16a, 16b and 18a, 18b at the same speed for moving the signature 14 along the signature supporting plate 12 (see, also, FIG. 2.) As shown in FIG. 2, the driving means may include a conventional motor 20 operatively connected to drive pulleys 22 and drive pulleys 24 in a manner that will be known to those skilled in the art.

As shown in FIG. 2, the drive pulleys 22 are operatively associated with the drive belts 16a and 16b whereas the drive pulleys 24 are operatively associated with the drive belts 18a and 18b. It will also be appreciated that the respective pairs of drive belts 16a, 16b and 18a, 18b will also be trained about other pulleys such as 26 in the case of drive belts 16a, 16b, and 28 and 30 in the case of drive belts 18a and 18b."

Magee does not disclose or anticipate the invention claimed by Applicants in claim 1, as amended, namely a lower looping belt having a mailpiece intake section that extends beyond the width of the upper belt adjacent the printing area running from the upstream end towards the downstream end, wherein the mailpiece intake section and the straight section form a wedge-shaped gap resulting in a soft ingest nip so that the tension of the lower belt is controlled by the elasticity of the lower belt wrapped around fixed pulleys to provide a normal force between mailpieces having different thicknesses

and the upper belt for providing a friction force to move the mailpiece into the printing area for printing.

Claims 9-16 and 18-20 have been rejected by the Examiner under 35 USC §102(e) as being anticipated by Coudray, et al. (U.S. Patent No. 6,431,778B1).

Coudray discloses the following in lines 36-52 of column 4:

"In order to allow the suspension movements of the rollers 20 and 22, the journal of each of these rollers is mounted at one respective end of an arm 25 the center of which is mounted so as to oscillate on the journal of the roller 21, the path followed by the journal of the rollers 20 and 22 upon a suspension movement thus being a circular arc centered on the journal of the roller 21, the movements of the rollers 20 and 22 being in opposition, that is to say that when the roller 22 is lowered, the roller 20 is raised and vice versa.

A spring 26 is provided to force the arm 25 in the direction in which the roller 22 is raised, that is to say in the direction where it comes up against the stretch of the upper belt 9 located in the corridor 5.

It will be observed that the roller 16 serves as a counter roller for the roller 22, that is to say that it allows it to take up the forces exerted by the spring 26."

Coudray does not disclose or anticipate the invention claimed by Applicants in claim 9 as amended and those claims dependent thereon. Coudray does not disclose or anticipate a lower looping belt having a mailpiece intake section running from the upstream end towards the downstream end, wherein the mailpiece intake section of the lower looping belt and the straight section of the upper looping belt form a wedge-shaped gap resulting in a soft ingest nip so that the tension of the lower belt provides a normal force between the mailpiece and the upper belt in order to provide a friction force to move the mailpiece into the gap towards the printing area so that the mailpiece surface is substantially located on the registration plane. Coudray does not disclose or anticipate the invention claimed by Applicants in claim 11 as amended. Coudray does not disclose or anticipate a lower looping belt having a mailpiece intake section

running from the upstream end towards the downstream end, wherein the mailpiece intake section and the straight section form a wedge-shaped gap resulting in a soft ingest nip so that the tension of the lower belt provides a normal force between the mailpiece and the upper belt for providing a friction force to move the mailpiece into the printing area for printing.

Claims 2-3 have been rejected by the Examiner under 35 USC §103(a) as being unpatentable over Magee in view of Coudray, et al.

Neither Magee nor Coudray, taken separately or together, discloses or anticipates the invention claimed by Applicants in claim 1 as amended and those claims dependent thereon. Coudray does not disclose or anticipate a lower looping belt having a mailpiece intake section that extends beyond the width of the upper belt adjacent the printing area running from the upstream end towards the downstream end, wherein the mailpiece intake section and the straight section form a wedge-shaped gap resulting in a soft ingest nip so that the tension of the lower belt is controlled by the elasticity of the lower belt wrapped around fixed pulleys to provide a normal force between mailpieces having different thicknesses and the upper belt for providing a friction force to move the mailpiece into the printing area for printing.

Claim 7 has been rejected by the Examiner under 35 USC §103(a) as being unpatentable over Magee applied to claims 1, 4-6 and 8 above and further in view of Wataya, et al. (U.S. Patent No. 5,828,387).

Wataya discloses the following in lines 9-18 of column 5:

"In FIG. 1, a speed detector 1 is constructed of, e.g., a pickup roller and rotary encoder. A pulse from the rotary encoder is monitored such that a control unit 2 recognizes the speed status in accordance with the monitored phase. The speed detector 1 may be an optical sensor an example of which is disclosed as a laser Doppler type sensor in Japanese Unexamined Patent Publication (Kokai) No. 61-130887. The speed detector 1 is mounted at the side end portion of a feed belt 54 so as not to obstruct the feeding of a cut sheet 51."

The Examiner is of the opinion that "It would have been obvious to combine the teaching of Wataya, et al. with the transport system disclosed by Magee for the advantage of synchronizing the registration of different colors that are being printed.

Magee has been discussed above.

In claim 7, Applicants claim a velocity measurement mechanism to match the printing speed of the print head to the moving speed of the mailpiece in the printing area.

Claim 17 has been rejected by the Examiner under 35 USC §103(a) as being unpatentable over Coudray, et al. as applied to claims 9-16 and 18-20 above, and further in view of Wataya, et al.

Wataya discloses the following in lines 9-18 of column 5:

"In FIG. 1, a speed detector 1 is constructed of, e.g., a pickup roller and rotary encoder. A pulse from the rotary encoder is monitored such that a control unit 2 recognizes the speed status in accordance with the monitored phase. The speed detector 1 may be an optical sensor an example of which is disclosed as a laser Doppler type sensor in Japanese Unexamined Patent Publication (Kokai) No. 61-130887. The speed detector 1 is mounted at the side end portion of a feed belt 54 so as not to obstruct the feeding of a cut sheet 51."

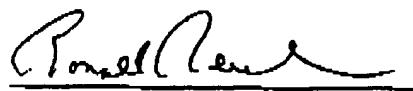
The Examiner is of the opinion that "It would have been obvious to combine the teaching of Wataya, et al. with the transport system disclosed by Magee for the advantage of synchronizing the registration of different colors that are being printed.

Magee has been discussed above.

Coudray, et al. has been discussed above. In claim 17, Applicants claim a velocity measurement mechanism that matches the printing speed of the print head to the moving speed of the mailpiece in the printing area.

In view of the above, claims 1-20 are patentable. If the Examiner has any questions, will he please contact the undersigned at the telephone number noted below.

Respectfully submitted,



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